

Title (en)

RADIOTHERAPY APPARATUS WITH ON-BOARD STEREOTACTIC IMAGING SYSTEM

Title (de)

STRAHLENTHERAPIEVORRICHTUNG MIT INTEGRIERTEM STEREOTAKTISCHEM BILDGEBUNGSSYSTEM

Title (fr)

APPAREIL DE RADIOTHERAPIE AYANT UN SYSTÈME D'IMAGERIE STÉRÉOTAXIQUE EMBARQUÉ

Publication

EP 3185776 B1 20240703 (EN)

Application

EP 15835323 A 20150414

Priority

- IN 4150CH2014 A 20140825
- IB 2015052701 W 20150414

Abstract (en)

[origin: WO2016030772A1] The present invention provides a radiotherapy apparatus (100) to generate both photon and electron beam mounted with dual KV beam ray source used for stereotactic imaging and CBCT (Cone Beam Computed Tomography) image with a greater FOV (Field Of View). The apparatus (100) comprises of a ring gantry (101), which includes atleast two KV sources (102a and 102b), atleast two movable detector (103 and 104) and a LINAC X-ray tube (106). The two movable detectors (103, 104) include a first movable detector (104) and a second movable detector (103). The second movable detector (103) has mechanism capture a half fan mode of X-ray beam of imaging radiation with a greater FOV having 250 X 450 mm. The half fan mode of X ray is captured by moving the second movable detector (103) or first movable detector (104) further towards the ISO centre (105) of the ring gantry (101).

IPC 8 full level

A61B 6/03 (2006.01); **A61N 5/10** (2006.01); **G01N 23/04** (2018.01)

CPC (source: EP US)

A61B 6/03 (2013.01 - EP US); **A61B 6/032** (2013.01 - US); **A61B 6/4014** (2013.01 - EP US); **A61B 6/4085** (2013.01 - EP US); **A61B 6/4266** (2013.01 - EP US); **A61B 6/486** (2013.01 - EP US); **A61B 6/5235** (2013.01 - EP US); **A61B 6/5258** (2013.01 - EP US); **A61B 6/542** (2013.01 - EP US); **A61N 5/1049** (2013.01 - US); **A61N 5/1081** (2013.01 - EP US); **A61N 2005/1061** (2013.01 - EP US); **A61N 2005/1089** (2013.01 - US); **G01N 23/046** (2013.01 - US); **G01N 2223/1006** (2013.01 - EP US); **G01N 2223/102** (2013.01 - EP US); **G01N 2223/414** (2013.01 - EP US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2016030772 A1 20160303; CN 106572835 A 20170419; EP 3185776 A1 20170705; EP 3185776 A4 20180321; EP 3185776 B1 20240703; US 10485496 B2 20191126; US 2017231583 A1 20170817

DOCDB simple family (application)

IB 2015052701 W 20150414; CN 201580045317 A 20150414; EP 15835323 A 20150414; US 201515506329 A 20150414